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RAW SEQUENCE LISTING

DATE: 09/15/2004

PATENT APPLICATION: US/09/763,393

TIME: 16:54:32

Input Set : A:\61541.ST25.txt

Output Set: N:\CRF4\09152004\I763393.raw

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3 <110> APPLICANT: The Government of the United States of America as
4   represented by the Secretary of the Department of Health and
5   Human Services
6   Pastan, Ira
7   Brinkmann, Ulrich
8   Vasmatzis, George
9   Lee, Byungkook
11 <120> TITLE OF INVENTION: PAGE-4, an X-Linked GAGE-Like Gene Expressed in Normal and
12   Neoplastic Prostate, Testis and Uterus, and Uses Therefor
14 <130> FILE REFERENCE: 4239-61541-01
16 <140> CURRENT APPLICATION NUMBER: US 09/763,393
17 <141> CURRENT FILING DATE: 2001-07-30
19 <150> PRIOR APPLICATION NUMBER: PCT/US99/20046
20 <151> PRIOR FILING DATE: 1999-08-31
22 <150> PRIOR APPLICATION NUMBER: US 60/098,993
23 <151> PRIOR FILING DATE: 1998-09-01
25 <160> NUMBER OF SEQ ID NOS: 16
27 <170> SOFTWARE: PatentIn version 3.3
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 102
31 <212> TYPE: PRT
32 <213> ORGANISM: Homo sapiens
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40 Glu Ala Pro Asp Val Val Ala Phe Val Ala Pro Gly Glu Ser Gln Gln
41          20          25          30
44 Glu Glu Pro Pro Thr Asp Asn Gln Asp Ile Glu Pro Gly Gln Glu Arg
45          35          40          45
48 Glu Gly Thr Pro Pro Ile Glu Glu Arg Lys Val Glu Gly Asp Cys Gln
49          50          55          60
52 Glu Met Asp Leu Glu Lys Thr Arg Ser Glu Arg Gly Asp Gly Ser Asp
53 65          70          75          80
56 Val Lys Glu Lys Thr Pro Pro Asn Pro Lys His Ala Lys Thr Lys Glu
57          85          90          95
60 Ala Gly Asp Gly Gln Pro
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65 <211> LENGTH: 117
66 <212> TYPE: PRT
67 <213> ORGANISM: Homo sapiens
69 <400> SEQUENCE: 2
71 Met Ser Trp Arg Gly Arg Ser Thr Tyr Arg Pro Arg Pro Arg Arg Tyr

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72 1          5          10          15
75 Val Glu Pro Pro Glu Met Ile Gly Pro Met Arg Pro Glu Gln Phe Ser
76          20          25          30
79 Asp Glu Val Glu Pro Ala Thr Pro Glu Glu Gly Glu Pro Ala Thr Gln
80          35          40          45
83 Arg Gln Asp Pro Ala Ala Ala Gln Glu Gly Glu Asp Glu Gly Ala Ser
84          50          55          60
87 Ala Gly Gln Gly Pro Lys Pro Glu Ala Asp Ser Gln Glu Gln Gly His
88 65          70          75          80
91 Pro Gln Thr Gly Cys Glu Cys Glu Asp Gly Pro Asp Gly Gln Glu Met
92          85          90          95
95 Asp Pro Pro Asn Pro Glu Glu Val Lys Thr Pro Glu Glu Glu Met Arg
96          100          105          110
99 Ser His Tyr Val Ala
100          115
103 <210> SEQ ID NO: 3
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105 <212> TYPE: PRT
106 <213> ORGANISM: Homo sapiens
108 <400> SEQUENCE: 3
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111 1          5          10          15
114 Val Glu Pro Pro Glu Met Ile Gly Pro Met Arg Pro Glu Gln Phe Ser
115          20          25          30
118 Asp Glu Val Glu Pro Ala Thr Pro Glu Glu Gly Glu Pro Ala Thr Gln
119          35          40          45
122 Arg Gln Asp Pro Ala Ala Ala Gln Glu Gly Glu Asp Glu Gly Ala Ser
123          50          55          60
126 Ala Gly Gln Gly Pro Lys Pro Glu Ala His Ser Gln Glu Gln Gly His
127 65          70          75          80
130 Pro Gln Thr Gly Cys Glu Cys Glu Asp Gly Pro Asp Gly Gln Glu Met
131          85          90          95
134 Asp Pro Pro Asn Pro Glu Glu Val Lys Thr Pro Glu Glu Gly Glu Lys
135          100          105          110
138 Gln Ser Gln Cys
139          115
142 <210> SEQ ID NO: 4
143 <211> LENGTH: 118
144 <212> TYPE: PRT
145 <213> ORGANISM: Homo sapiens
147 <400> SEQUENCE: 4
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153 Arg Tyr Val Gln Pro Pro Glu Val Ile Gly Pro Met Arg Pro Glu Gln
154          20          25          30
157 Phe Ser Asp Glu Val Glu Pro Ala Thr Pro Glu Glu Gly Glu Pro Ala
158          35          40          45
161 Thr Gln Arg Gln Asp Pro Ala Ala Ala Gln Glu Gly Glu Asp Glu Gly
162          50          55          60

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165 Ala Ser Ala Gly Gln Gly Pro Lys Pro Glu Ala Asp Ser Gln Glu Gln
166 65                      70                      75                      80
169 Gly His Pro Gln Thr Gly Cys Glu Cys Glu Asp Gly Pro Asp Gly Gln
170                      85                      90                      95
173 Glu Met Asp Pro Pro Asn Pro Glu Glu Val Lys Thr Pro Glu Glu Gly
174                      100                      105                      110
177 Glu Lys Gln Ser Gln Cys
178                      115

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181 <210> SEQ ID NO: 5

182 <211> LENGTH: 117

183 <212> TYPE: PRT

184 <213> ORGANISM: Homo sapiens

186 <400> SEQUENCE: 5

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188 Met Ser Trp Arg Gly Arg Ser Thr Tyr Tyr Arg Pro Arg Pro Arg Arg
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192 Tyr Val Gln Pro Pro Glu Met Ile Gly Pro Met Arg Pro Glu Gln Phe
193                      20                      25                      30
196 Ser Asp Glu Val Glu Pro Ala Thr Pro Glu Glu Gly Glu Pro Ala Thr
197                      35                      40                      45
200 Gln Arg Gln Asp Pro Ala Ala Ala Gln Glu Gly Glu Asp Glu Gly Ala
201                      50                      55                      60
204 Ser Ala Gly Gln Gly Pro Lys Pro Glu Ala Asp Ser Gln Glu Gln Gly
205 65                      70                      75                      80
208 His Pro Gln Thr Gly Cys Glu Cys Glu Asp Gly Pro Asp Gly Gln Glu
209                      85                      90                      95
212 Met Asp Pro Pro Asn Pro Glu Glu Val Lys Thr Pro Glu Glu Gly Glu
213                      100                      105                      110
216 Lys Gln Ser Gln Cys
217                      115

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221 <211> LENGTH: 117

222 <212> TYPE: PRT

223 <213> ORGANISM: Homo sapiens

225 <400> SEQUENCE: 6

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227 Met Ser Trp Arg Gly Arg Ser Thr Tyr Tyr Arg Pro Arg Pro Arg Arg
228 1                      5                      10                      15
231 Tyr Val Gln Pro Pro Glu Val Ile Gly Pro Met Arg Pro Glu Gln Phe
232                      20                      25                      30
235 Ser Asp Glu Val Glu Pro Ala Thr Pro Glu Glu Gly Glu Pro Ala Thr
236                      35                      40                      45
239 Gln Arg Gln Asp Pro Ala Ala Ala Gln Glu Gly Glu Asp Glu Gly Ala
240                      50                      55                      60
243 Ser Ala Gly Gln Gly Pro Lys Pro Glu Ala Asp Ser Gln Glu Gln Gly
244 65                      70                      75                      80
247 His Pro Gln Thr Gly Cys Glu Cys Glu Asp Gly Pro Asp Gly Gln Glu
248                      85                      90                      95
251 Met Asp Pro Pro Asn Pro Glu Glu Val Lys Thr Pro Glu Glu Gly Glu
252                      100                      105                      110
255 Lys Gln Ser Gln Cys

```

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259 <210> SEQ ID NO: 7
260 <211> LENGTH: 117
261 <212> TYPE: PRT
262 <213> ORGANISM: Homo sapiens
264 <400> SEQUENCE: 7
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267 1          5          10          15
270 Tyr Val Gln Pro Pro Glu Val Ile Gly Pro Met Arg Pro Glu Gln Phe
271          20          25          30
274 Ser Asp Glu Val Glu Pro Ala Thr Pro Glu Glu Gly Glu Pro Ala Thr
275          35          40          45
278 Gln Arg Gln Asp Pro Ala Ala Ala Gln Glu Gly Glu Asp Glu Gly Ala
279          50          55          60
282 Ser Ala Gly Gln Gly Pro Lys Pro Glu Ala Asp Ser Gln Glu Gln Gly
283 65          70          75          80
286 His Pro Gln Thr Gly Cys Glu Cys Glu Asp Gly Pro Asp Gly Gln Glu
287          85          90          95
290 Val Asp Pro Pro Asn Pro Glu Glu Val Lys Thr Pro Glu Glu Gly Glu
291          100          105          110
294 Lys Gln Ser Gln Cys
295          115
298 <210> SEQ ID NO: 8
299 <211> LENGTH: 124
300 <212> TYPE: PRT
301 <213> ORGANISM: Homo sapiens
303 <400> SEQUENCE: 8
305 Met Ser Leu Glu Gln Lys Ser Gln His Cys Lys Pro Glu Glu Gly Leu
306 1          5          10          15
309 Asp Thr Gln Glu Glu Ala Leu Gly Leu Val Gly Val Gln Ala Ala Thr
310          20          25          30
313 Thr Glu Glu Gln Glu Ala Val Ser Ser Ser Pro Leu Val Pro Gly
314          35          40          45
317 Thr Leu Gly Glu Val Pro Ala Ala Gly Ser Pro Gly Pro Leu Lys Ser
318          50          55          60
321 Pro Gln Gly Ala Ser Ala Ile Pro Thr Ala Ile Asp Phe Thr Leu Trp
322 65          70          75          80
325 Arg Gln Ser Ile Lys Gly Ser Ser Asn Gln Glu Glu Glu Gly Pro Ser
326          85          90          95
329 Thr Ser Pro Asp Pro Glu Ser Val Phe Arg Ala Ala Leu Ser Lys Lys
330          100          105          110
333 Val Ala Asp Leu Ile His Phe Leu Leu Leu Lys Tyr
334          115          120
337 <210> SEQ ID NO: 9
338 <211> LENGTH: 127
339 <212> TYPE: PRT
340 <213> ORGANISM: Homo sapiens
342 <400> SEQUENCE: 9
344 Met Leu Leu Gly Gln Lys Ser Gln Arg Tyr Lys Ala Glu Glu Gly Leu

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345 1          5          10          15
348 Gln Ala Gln Gly Glu Ala Pro Gly Leu Met Asp Val Gln Ile Pro Thr
349          20          25          30
352 Ala Glu Glu Gln Lys Ala Ala Ser Ser Ser Ser Thr Leu Ile Met Gly
353          35          40          45
356 Thr Leu Glu Glu Val Thr Asp Ser Gly Ser Pro Ser Pro Pro Gln Ser
357          50          55          60
360 Pro Glu Gly Ala Ser Ser Ser Leu Thr Val Thr Asp Ser Thr Leu Trp
361 65          70          75          80
364 Ser Gln Ser Asp Glu Gly Ser Ser Ser Asn Glu Glu Glu Gly Pro Ser
365          85          90          95
368 Thr Ser Pro Asp Pro Ala His Leu Glu Ser Leu Phe Arg Glu Ala Leu
369          100          105          110
372 Asp Glu Lys Val Ala Glu Leu Val Arg Phe Leu Leu Arg Lys Tyr
373          115          120          125
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377 <211> LENGTH: 87
378 <212> TYPE: PRT
379 <213> ORGANISM: Artificial Sequence
381 <220> FEATURE:
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387 1          5          10          15
390 Glu Ala Pro Asp Val Val Ala Phe Val Ala Pro Gly Glu Ser Gln Glu
391          20          25          30
394 Glu Glu Pro Pro Thr Asp Asn Gln Gly Pro Asp Met Glu Ala Phe Gln
395          35          40          45
398 Gln Glu Leu Asp Leu Glu Lys Thr Arg Ser Glu Arg Gly Asp Gly Ser
399          50          55          60
402 Asp Val Lys Glu Lys Thr Pro Pro Asn Pro Lys His Ala Lys Thr Lys
403 65          70          75          80
406 Glu Ala Gly Asp Gly Gln Pro
407          85
410 <210> SEQ ID NO: 11
411 <211> LENGTH: 109
412 <212> TYPE: PRT
413 <213> ORGANISM: Artificial Sequence
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416 <223> OTHER INFORMATION: PAGE2
418 <400> SEQUENCE: 11
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424 Asp Gln Glu Ser Ser Gln Pro Val Gly Ser Val Ile Val Gln Glu Pro
425          20          25          30
428 Thr Glu Glu Lys Arg Gln Gln Glu Glu Pro Pro Thr Asp Asn Gln Asp
429          35          40          45
432 Ile Glu Pro Gly Gln Glu Arg Glu Gly Thr Pro Pro Ile Glu Glu Arg
433          50          55          60

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VERIFICATION SUMMARY

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